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the limitation that the "reference frame identifier specifies a frame boundary of a reference system pulse corresponding to the system timing information used in the determination of the calibration time." Claim 2 has been amended to recite the limitation that "the reference frame identifier specifying a frame boundary of a reference system pulse, the calibration time being determined using satellite timing information and the reference system pulse." Support for these recitations can be found at page 8, lines 13-22. Noguchi does not disclose such a reference frame identifier or the use of a reference system pulse in determining a calibration time. Accordingly, it is felt that claims 1 and 2, as amended, are patentable under 35 U.S.C. §102(b) over Noguchi.

New claims 3-12 have been added to more completely cover certain aspects of applicant's invention. Support for these claims may be found at page 8, lines 3-6 and 27-33, and at page 9, lines 11-34. New claims 3-9 and claims 10-12 are dependent upon, and include all the limitations of claims 1 and 2, respectively, and are therefore also felt to be patentable under 35 U.S.C. §102(b) over Noguchi.

No additional fees are due.

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Marked Up Version of Claims

1. (once amended) A method of time calibration comprising the steps of:

determining a calibration time using system timing information and embedded satellite timing information; and

transmitting the calibration time and a reference frame identifier, wherein the reference frame identifier specifies a frame boundary of a reference system pulse corresponding to [derived from] the system timing information used in the determination of the calibration time.

2. (once amended) A method of time calibration comprising the steps of:

receiving at a receiver a message having a calibration time and a reference frame identifier, wherein the message is received over one or more frames, the reference frame identifier specifying a frame boundary of a reference system pulse, the calibration time being determined using satellite timing information and the reference system pulse; and

synchronizing the receiver to satellite timing using the calibration time, the reference frame identifier and a reference point in a frame specified by the reference frame identifier.

- (newly added) The method of claim 1 comprising the additional step of:
 receiving a request to perform timing calibration prior to the step of determining the calibration time.
- 4. (newly added) The method of claim 1, wherein the step of determining the calibration time comprises the steps of:

detecting at least one satellite signal; and

determining the embedded satellite timing using the detected at least one satellite signal.

5. (newly added) The method of claim 4 comprising the additional step of:

receiving Doppler frequency information associated with the at least one satellite signal being detected prior to the step of detecting the at least one satellite signal.

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- 6. (newly added) The method of claim 4 comprising the additional step of: receiving aiding information associated with the at least one satellite signal being detected prior to the step of detecting the at least one satellite signal.
- (newly added) The method of claim 6 comprising the additional step of:
 receiving a holding time for indicating when the aiding information expires.
- 8. (newly added) The method of claim 1 comprising the additional step of: transmitting an estimated frequency or a code phase search range.
- 9. (newly added) The method of claim 8 comprising the additional step of: transmitting a time for indicating a time duration wherein the estimated frequency or code phase search range is valid.
- 10. (newly added) The method of claim 2, wherein the step of receiving at the receiver the message having the calibration time and the reference frame identifier comprises the step of:

time stamping the message to indicate a time at which the message was received by the receiver.

11. (newly added) The method of claim 2 comprising the additional steps of: determining a second calibration time at the receiver using a detected satellite signal; and

transmitting the second calibration time.

12. (newly added) The method of claim 11, wherein the second calibration time is based on a one way propagation delay between the receiver and a transmitter from which the message having the calibration time and the reference frame identifier was transmitted.